

OPTICAL RECORDING/REPRODUCING DEVICE

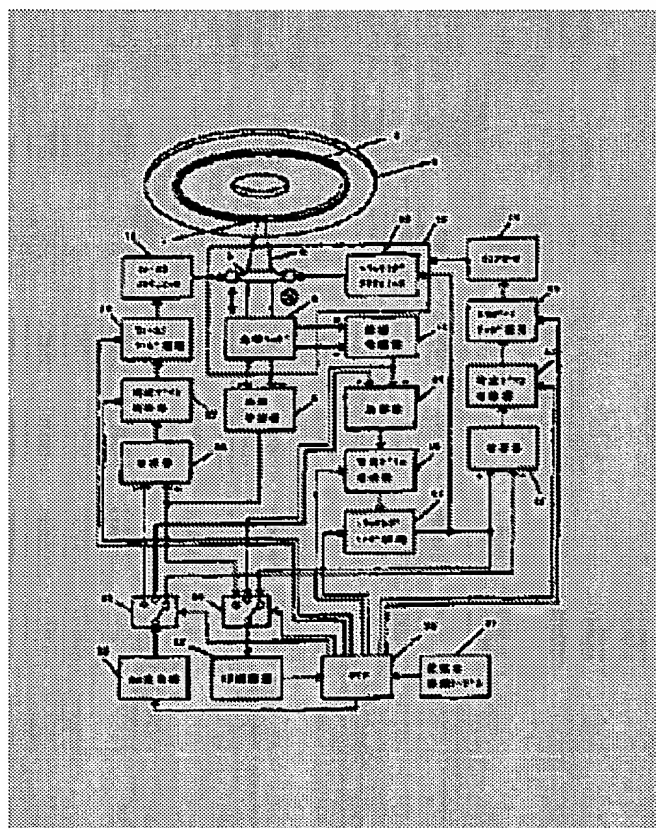
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 - international: G11B7/085; G11B7/095
 - european:
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Abstract of JP4345929

PURPOSE: To ensure the prescribed value for the phase characteristic by applying a standard reference signal to a servo loop, detecting the complex amplitude of the reference signal at a prescribed part of the servo loop with the orthogonal heterodyne detection, and calculating the gain and the phase of a servo system from the detected amplitude and the complex amplitude of the standard reference signal stored previously.

CONSTITUTION: A normal optical recording/reproducing device is provided with a digital signal processor 30, a sine wave numerical value table 31 for application of sine waves, an A/D converter 32, a D/A converter 33, a switch 34 which switches the input applied to the converter 32 with an instruction of the processor 30, and a switch 35 which switches the output of the converter 33 with an instruction of the processor 30. Then the gains of the variable gain amplifiers 37, 40 and 43 are switched with the instructions of the processor 30 to an adder 36 which adds together the outputs of a differential amplifier 8 and the switch 35, an adder 39 which adds together the outputs of a differential amplifier 11 and the switch 35, an adder 42 which adds together the outputs of a tracking servo circuit 41 and the switch 35, etc.



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